



1. Complete the table

	Highest common Factor
2yg and 3y	У
2yg and 3yg	
$2ab^2$ and b^2	

- 2. True or False?
- a) 2ab + a = a(2b + 1)
- b) 2b + ab = b(2 + ab)
- c) 5ab 10a = 5a(b + 2)

- 3. Factorise these expressions.
- a) $2ab + a^2$ b) $2b + a^2b$
- c) $2ab + a^{2}b$ d) $2a^{2}b + ab$
- e) $2ab + 4a^2$ f) $3a 6a^2b$
- g) 5ab 15a²b h) 10a²b + 15ab²
- 4. Factorise these expressions.
- a) $a^3 + 3a$ b) $a^5 3a^2$

- 5. Find the missing values.
- a) $a^5 + 6 a^3 = 3a^3(a^2 +)$
- b) $8ab a^{2}b = 8ab(2a)$
- 6. Amir has factorised the expression

24*x*²y + 18*x*y

2xy(12x+10)

Can you spot his mistake?

7. Match the expressions that are equivalent.



8. The expression $2a^2$ has 6 factors.



Can you find them all?

Answers

1. Complete the table

	Highest common Factor
2yg and 3y	У
2yg and 3yg	Уg
$2ab^2$ and b^2	b ²

- 2. True or False
- a) 2ab + a = a(2b + 1) T
- b) 2b + ab = b(2 + ab) F
- c) 5ab-10a = 5a(b+2) F

3. Factorise these expressions

a)
$$2ab + a^2 a(2b + a) b) 2b + a^2b b(2 + a^2)$$

c) $2ab + a^{2}b ab(2 + a) d) 2a^{2}b + ab ab(2a + 1)$

e) 2ab + 4a² 2a(b + 2a) f) 3b - 6a²b 3b(1 - 2a²)

g) 5ab - 15a²b 5ab(1 - 3a) h) 10a²b + 15ab²
5ab(2a + 3b)
4. Factorise these expressions

a) $a^3 + 3a a(a^2 + 3)$ b) $a^5 - 3a^2 a^2(a^3 - 3)$ c) $12a^5 + 3a^3 3a^2(4a^3 + a)$ d) $9a^2 - 6a^5$

 $3a^2(3-2a^3)$

5. Find the missing values:

a) $3a^5 + 6a^3 = 3a^3 (a^2 + 2)$

b) 8 ab $-16 a^2 b = 8ab(1-2a)$

6. Amir has factorised the expression

 $24x^2y + 18xy$ 2xy(12x+10)

Can you spot his mistake?

7. Match the expressions that are equivalent.



8. The expression $2a^2$ has 6 factors.

Can you find them all?

